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Title: JP2004033673A2: UNIFIED PROBABILITY FRAMEWORK FOR PREDICTING AND DETECTING INTRACEREBRAL STROKE MANIFESTATION AND MULTIPLE THERAPY DEVICE

Derwent Title: Automatically predicting and preventing electrographic onset of seizure in individual by extracting set of features from monitored signals, synthesizing probability vector, and applying intervention measure(s) [Derwent Record]

Country: JP Japan

Kind: A2 Document Laid open to Public inspection i

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IPC Code: IPC-7: **A61B 5/00**; A61B 5/0476; A61B 5/0484; A61N 1/08; A61N 1/36;

Priority Number: 2002-06-21 JP20020000217294

Abstract: PROBLEM TO BE SOLVED: To provide a method and device for predicting and detecting epileptic seizure onsets enabling a portion of the device to automatically deliver a progression of multiple therapies, ranging from benign to aggressive as the probabilities of seizure warrant.
SOLUTION: Based on novel computational intelligence algorithms, a realistic posterior probability function P (ST/x)

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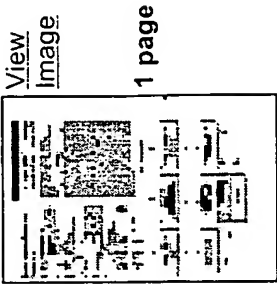
representing the probability of one or more seizures starting within the next T minutes, given observations (x) derived from IEEG or other signals, is periodically synthesized for a plurality of prediction time horizons. When coupled with optimally determined thresholds for alarm or therapy activation, probabilities defined in this manner provide anticipatory time-localization of events in a synergistic logarithmic-like array of time resolutions, thus effectively circumventing the performance vs. prediction-horizon trade off of single resolution systems and corresponding to the aggressive therapy.
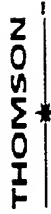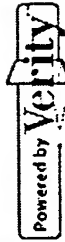
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